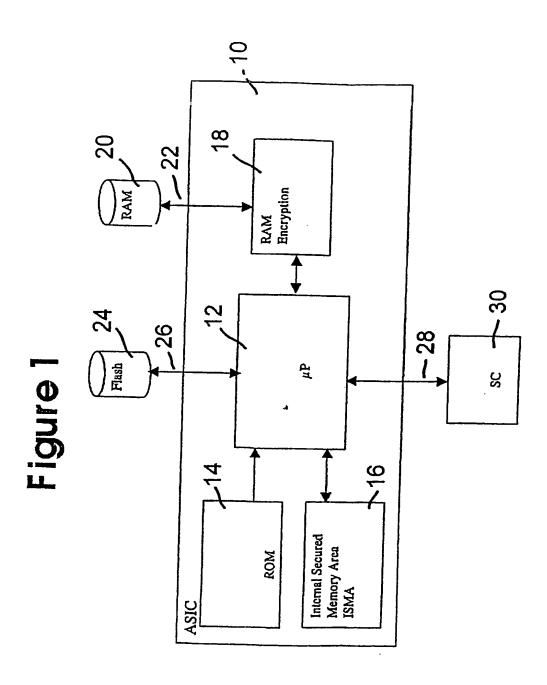
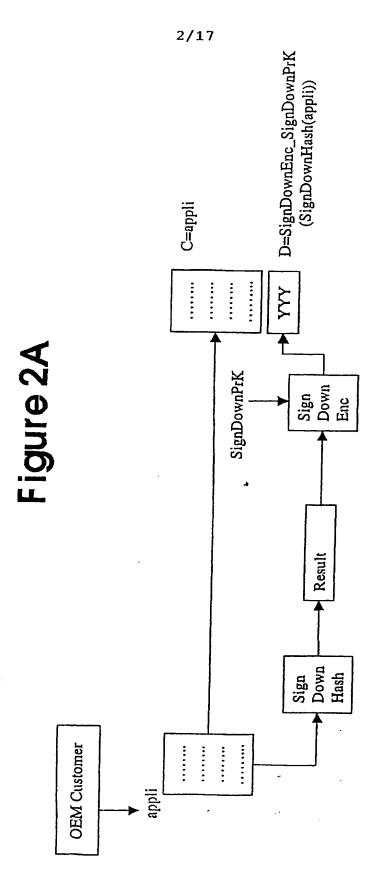
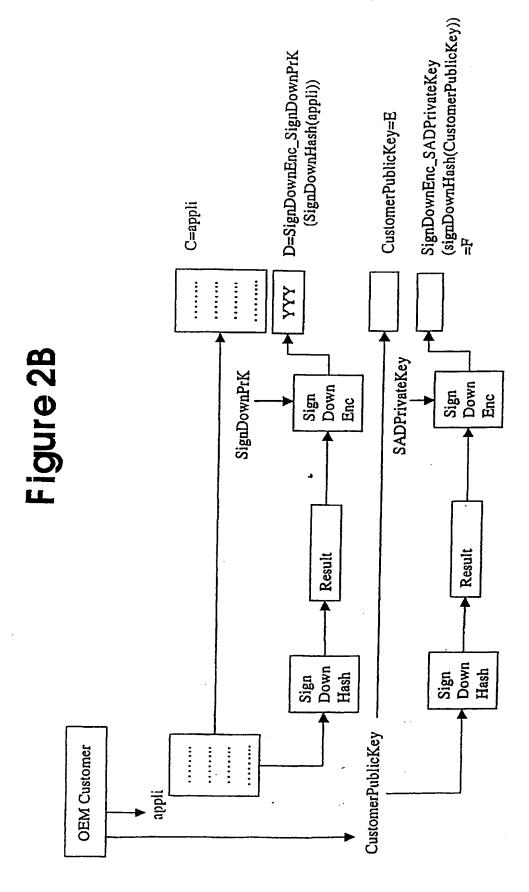
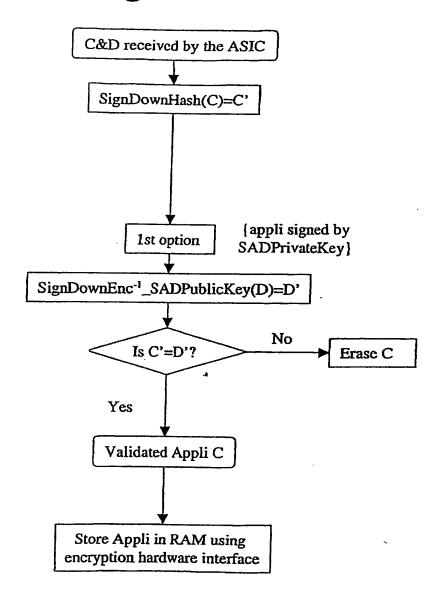
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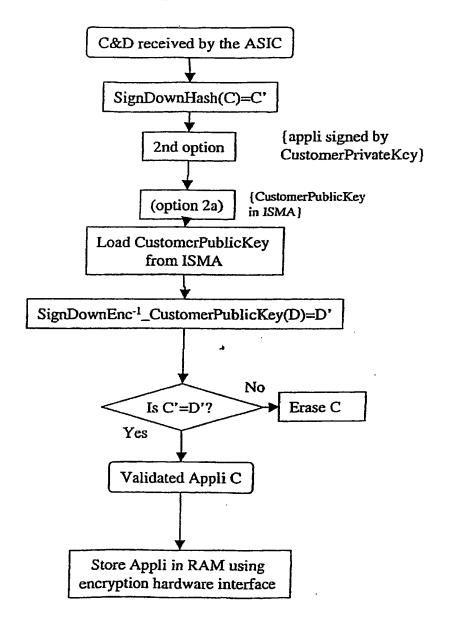




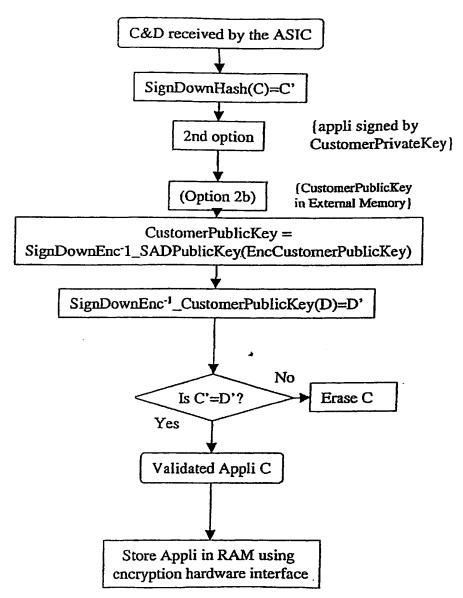
### figure 3A



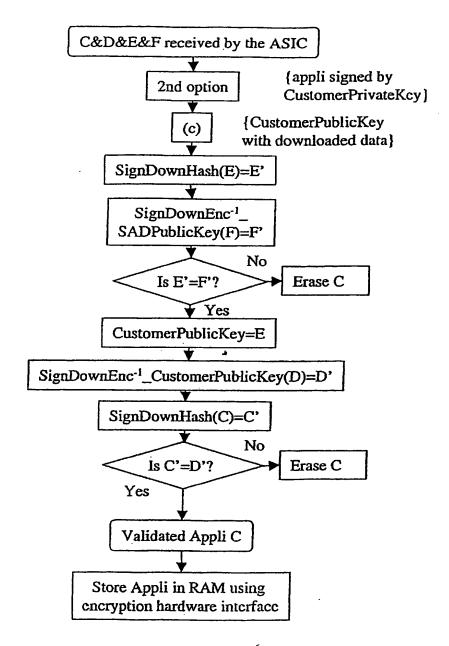
### figure 3B

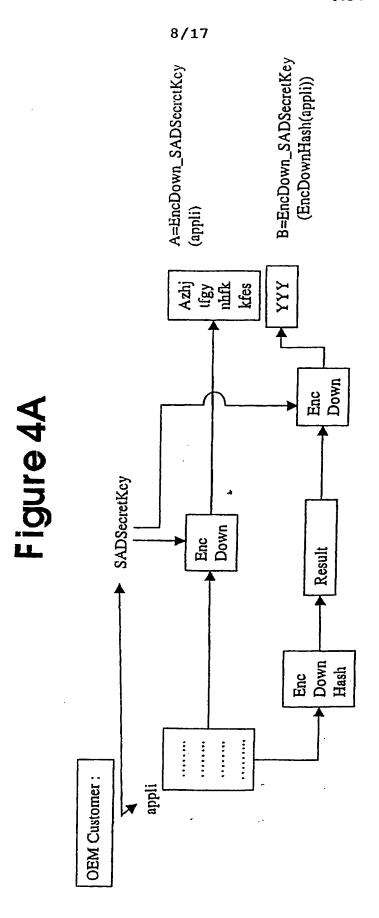


### Figure 3C

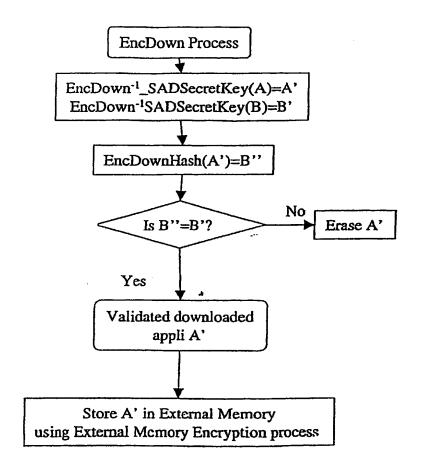


### Figure 3D

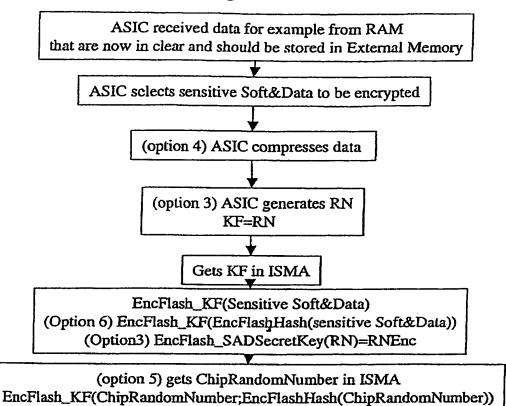




### Figure 4B



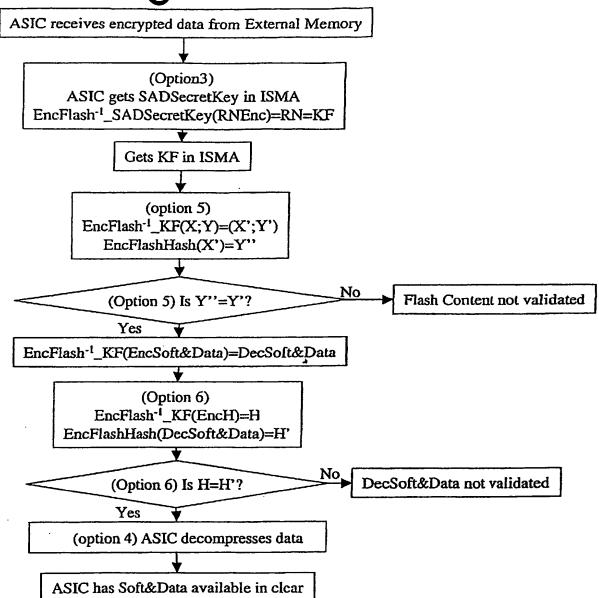
### figure 5A



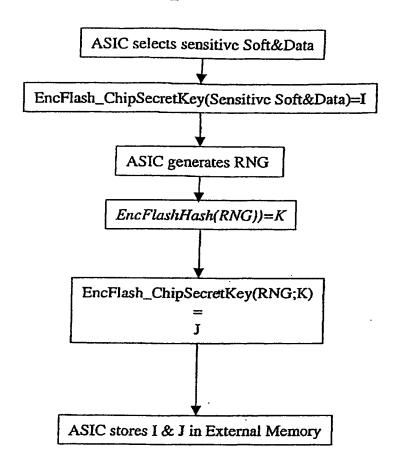
Store in External Memory

- EncFlash\_KF(Sensitive Soft&Data)
- (Option 6) EncFlash\_KF(EncFlashHash(sensitive Soft&Data))
  - Other non sensitive data
  - (Option3) EncFlash\_SADSecretKey(RN)=RNEnc
- (option 5) EncFlash\_KF(ChipRandomNumber; EncFlashHash(ChipRandomNumber))

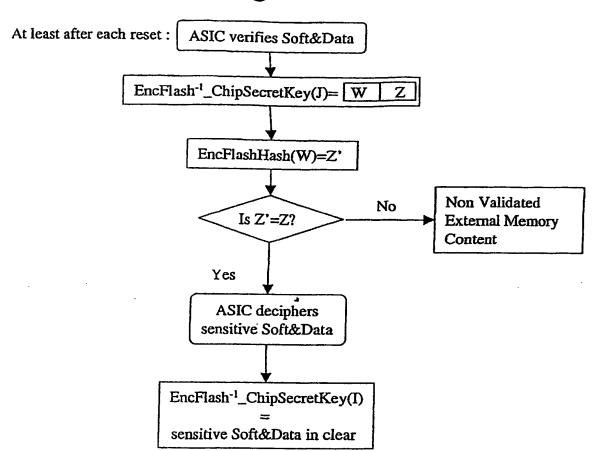




# figure 6

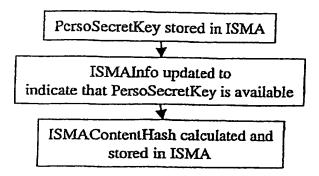


### figure 7



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# figure 8



### ISMA after First level personalization

ASIC ISMA ·

ASIC ISMA:		
	f PersoSecretKey f ISMAInfo f ISMAContentHash	
	<u> </u>	

### Rec'd PCT/PTO

SAD provides personalization application PersoAppli to OEM customer

EncPers\_PersoSecretKey(PersoAppli;SignPersEnc\_SADPrivateKey(SignPers SignPersEnc\_SADPrivateKey(SignPersHash(PersoAppli)) or EncPers\_PersoSecretKey(PersoAppli) & downloaded by OEM customer Hash(PersoAppli))

SignPersHash is a hash function used

figure 9

give a 20 Bytes result relevant to

ignature)algorithm used to encrypt the

ish result asymmetrically with

**ADPrivateKey** 

'SignPersEnc is an encryption

ersoAppli integrity

ol used to encrypt the personalization EncPers is an encryption symmetric

ftware and eventually its signature

SADPublicKey will be able to authenticate it, and then to PersoAppli is available in a protected and signed format OEM Customer's ASIC having PersoSecretKey & unencrypt it.

# ISMA after Second level personalization

ASIC ISMA:

f ISMAContentHash f Sensitive data f ISMAInfo

customer requirements. It could be run directly or stored in the External Memory using

PersoAppli will have the task to file ISMA with sensitive data

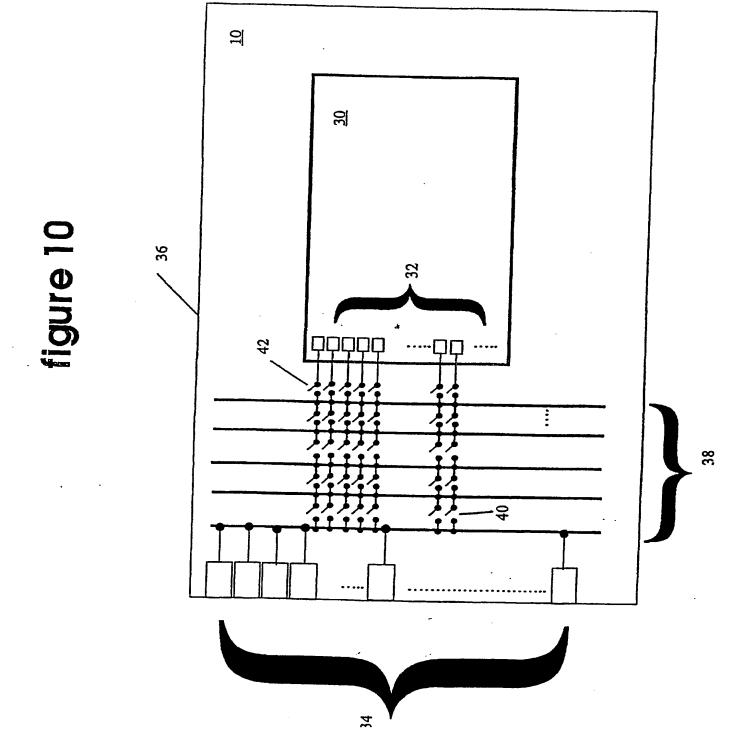
erase PersoSecretKey

update ISMAInfo

Compute and write ISMAContentHash

erase PersoAppli

PersoAppli will stored sensitive data corresponding to the different option corresponding to the OEM EncFlash\_PersoSecretKey (means KF = PersoSecretKey).



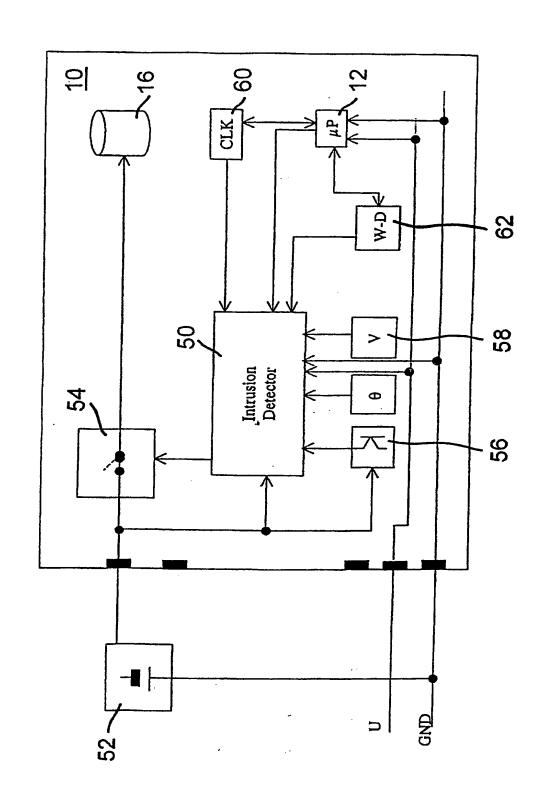


figure 11

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